

" Method for Reducing the Number of Vocoders When Voice Data is Passed From a Wireless System to a Packet-switched Network" patent application submitted by Aram Falsafi (FAX # 1-707-220-0961)

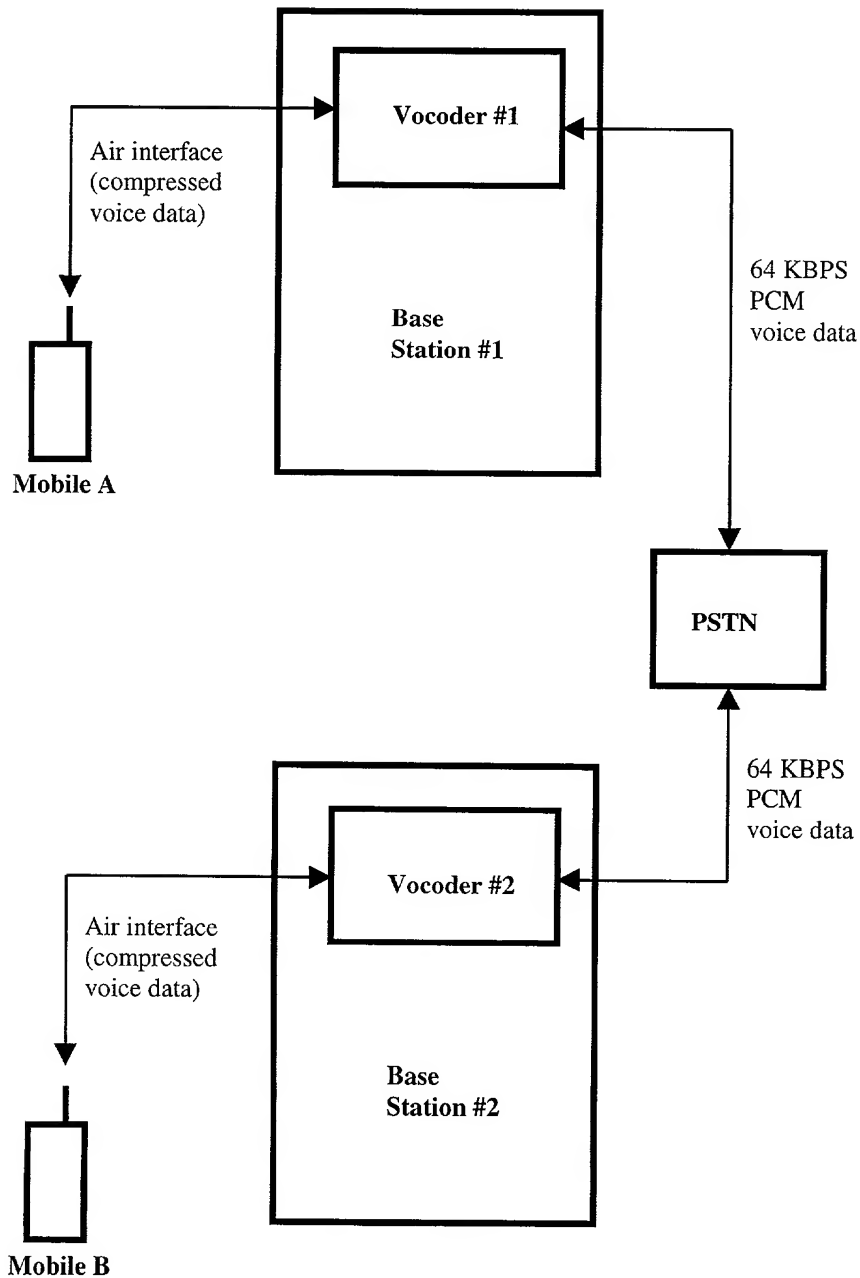


Figure 1. A traditional wireless network using a Public Switched Telephone Network (PSTN) to connect two mobile stations without vocoder bypass.

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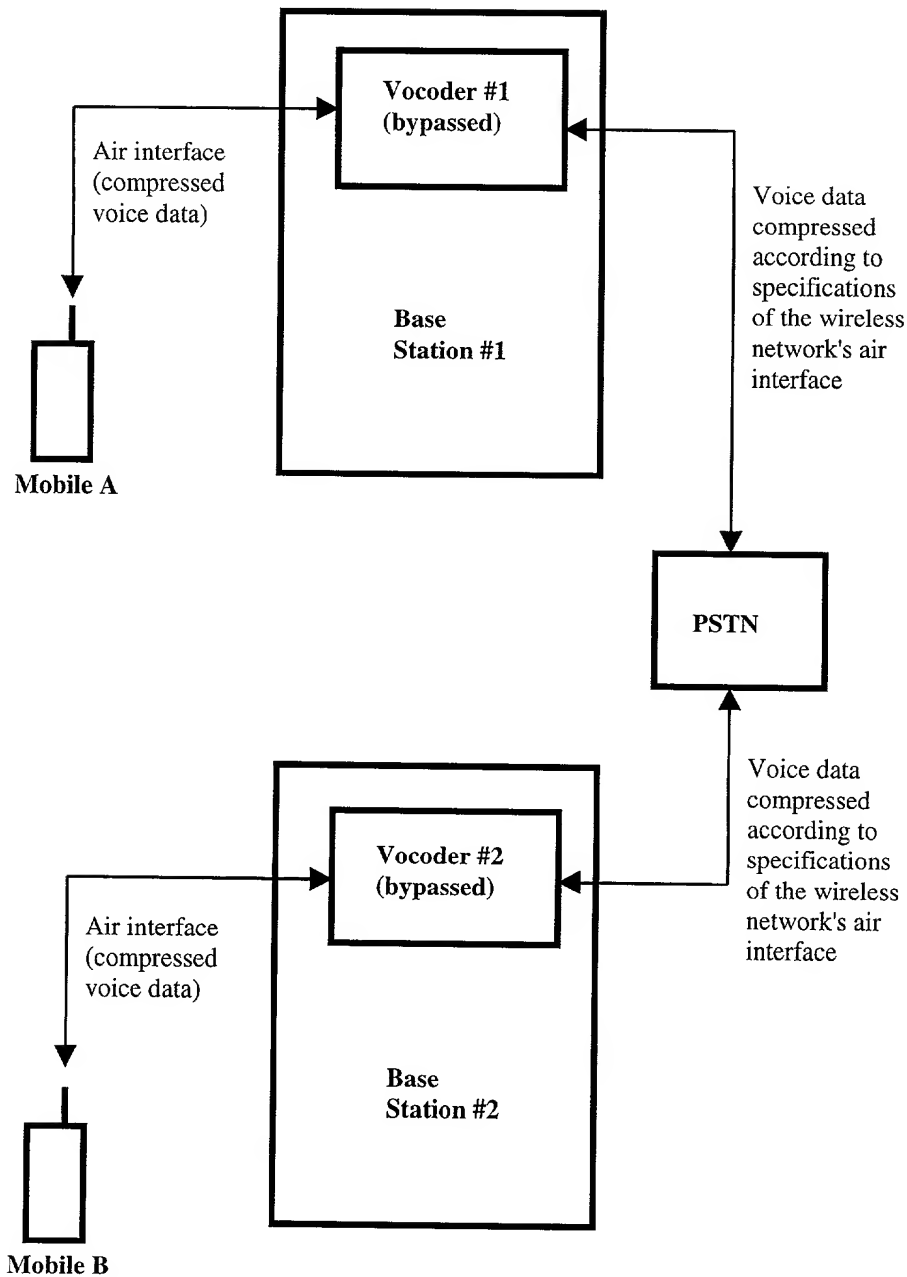


Figure 2. A wireless network using a Public Switched Telephone Network (PSTN) to connect two mobile stations, where the vocoders in the base stations are bypassed.

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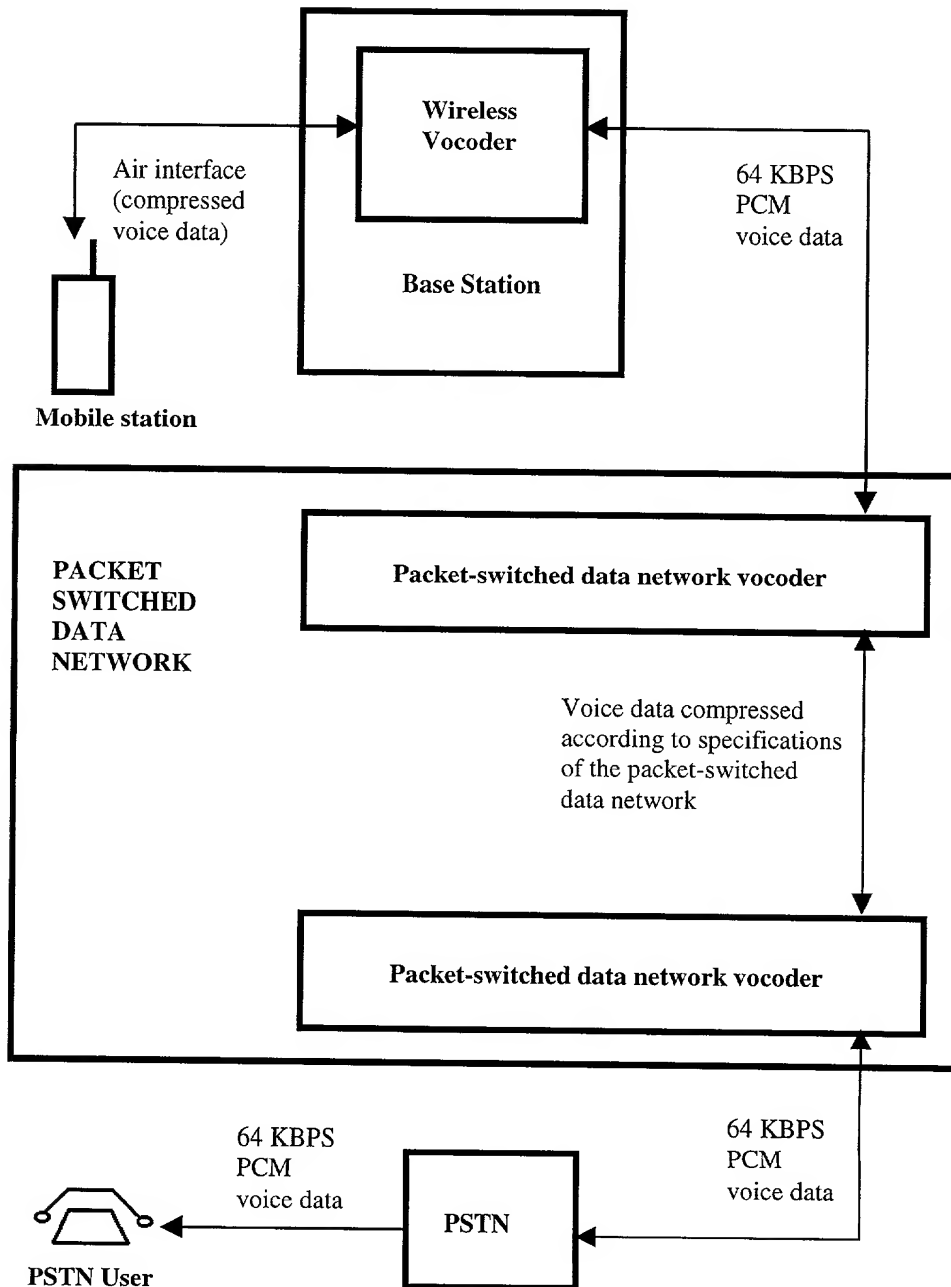


Figure 3. A wireless network using a packet-switched network for backhaul of voice traffic. The packet-switch network's vocoders further degrade voice quality.

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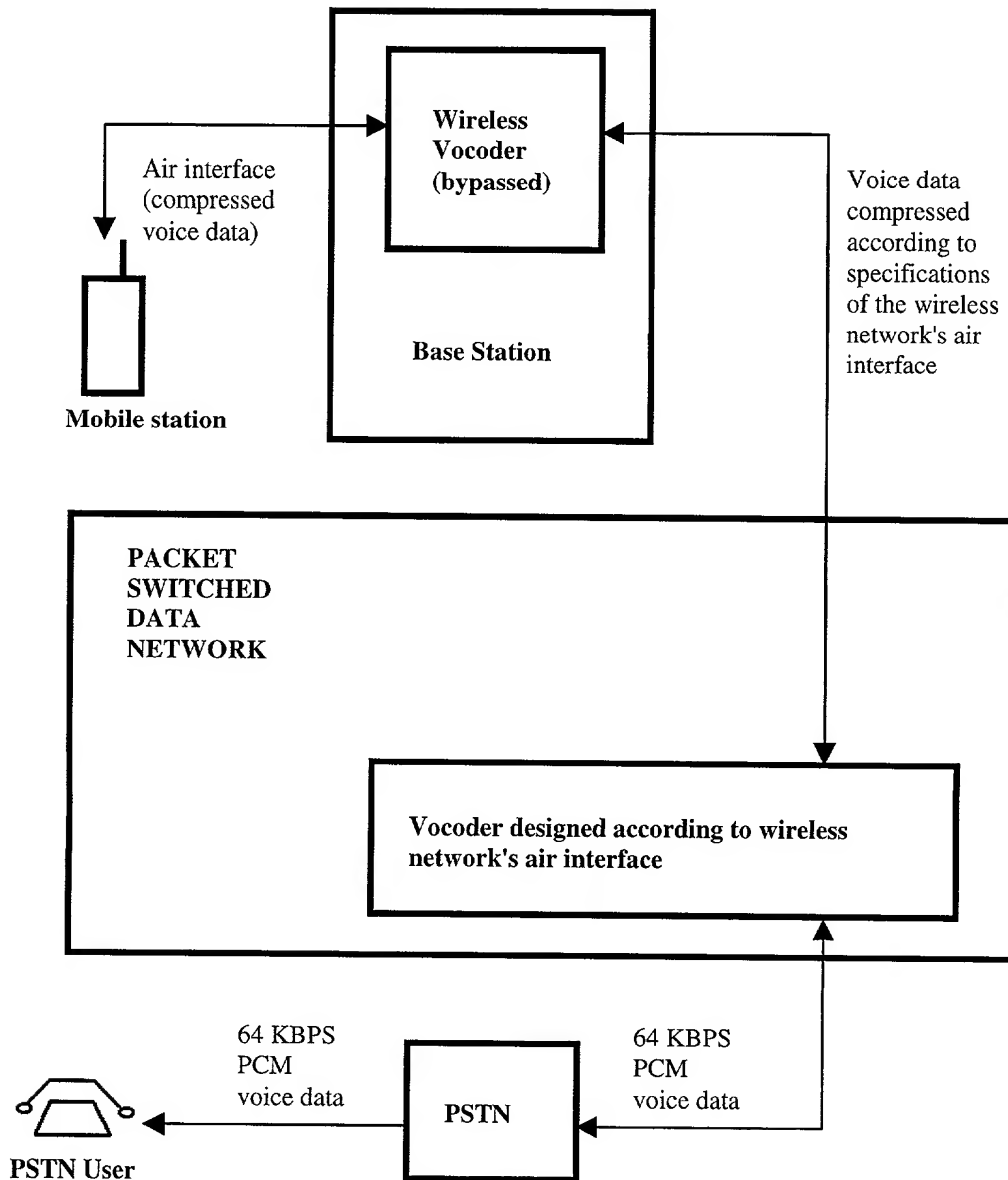


Figure 4. A wireless network using a packet-switched network for backhaul of voice traffic. The base station's vocoder is bypassed, and vocoding is done at the interface between the packet-switched network and the PSTN.

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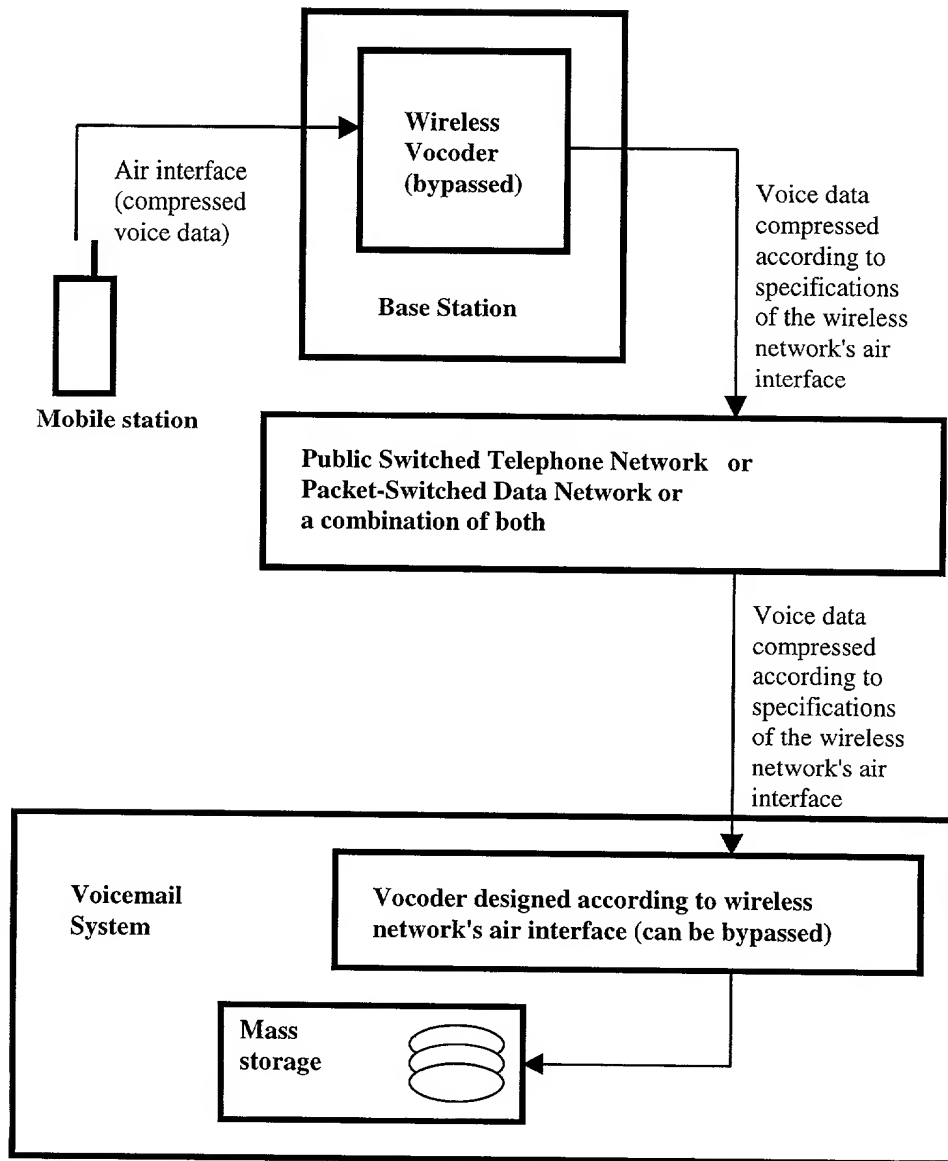


Figure 5. A wireless subscriber leaving a message in a voicemail system. The base station's vocoder is bypassed, and further vocoding may not be required if the voicemail system can store voice data in the format of the wireless network.

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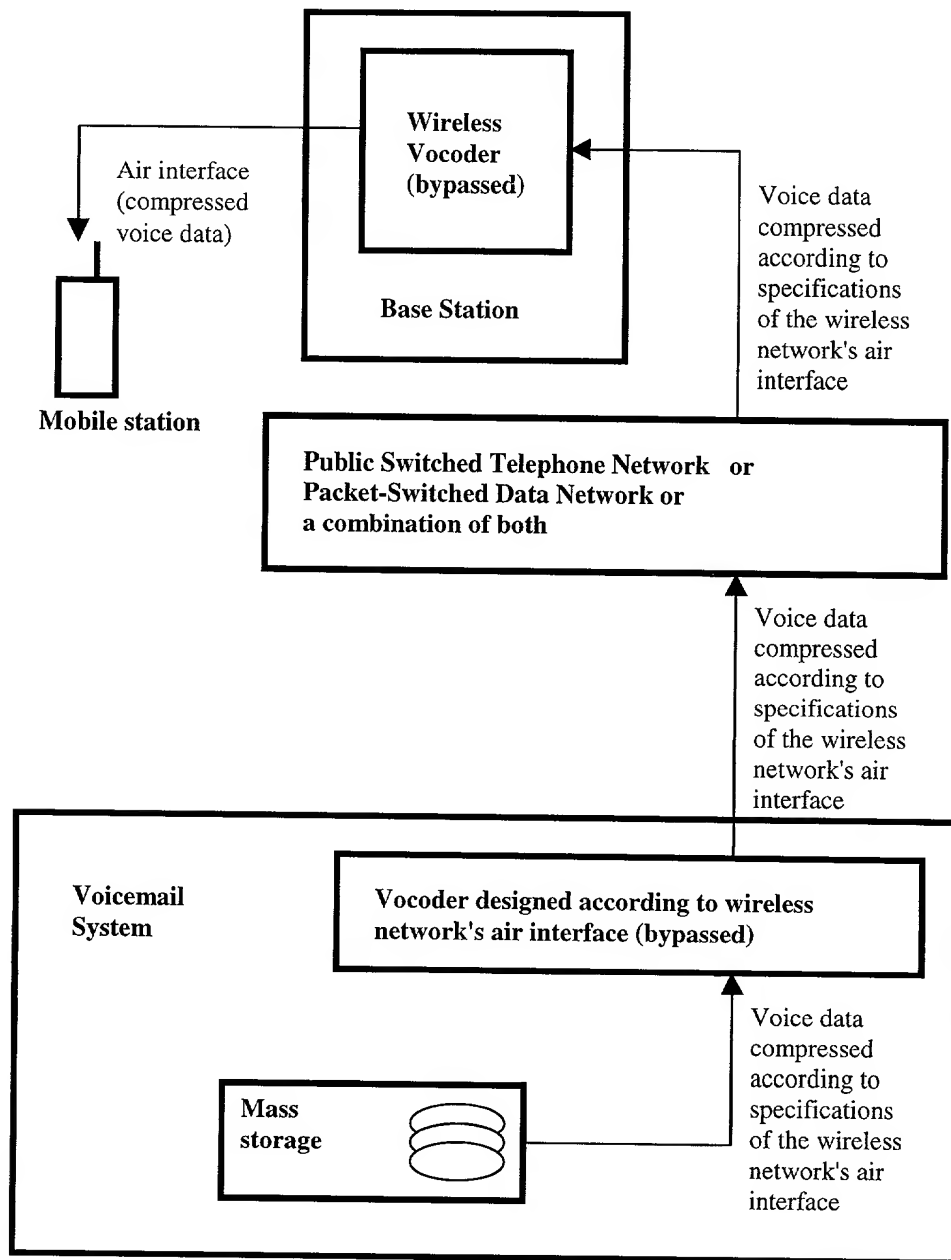


Figure 6. A wireless subscriber calling to retrieve a message from a voicemail system. The base station's vocoder as well as the voicemail system's vocoder are bypassed because the voicemail system has stored voice data in the format of the wireless network's air interface.